

# COSMETICS FORMULARY

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Sasol Chemicals



SASOL



## About us

Sasol Chemicals innovates for a better world and delivers long-term value to its customers, communities and society. The broad portfolio of high-value products plays an integral role in the creation of numerous solutions that benefit the lives of millions of people. Thousands of companies around the world leverage Sasol Chemicals' technology, world-class facilities, expertise and collaborative approach to tackle their challenges.

## Foreword

This collection of guideline formulation examples provides an overview of how the wide range of Sasol raw materials for cosmetics and personal care can be used to fulfil your performance and formulation requirements.

We hope to inspire new ideas by providing examples of formulation concepts and guideline formulations. You will find creams, lotions, sprays, foams and cleansers; also concepts for sunscreens (creams, lotions, foams and sprays), as well as high-foaming transparent cleansers with natural oils or active agents that are efficiently deposited on the skin.

We hope that we can offer a range of examples that will prove useful either for providing a starting point for further work or for inciting your imagination. For further questions and more examples or assistance please feel free to contact our global network of sales and technical staff.

**Disclaimer:** Sasol does not manufacture cosmetic, soap, drug or hand sanitizers products. Manufacturers that produce these type of products need to comply with applicable regulatory requirements and other

applicable requirements, including GMP. The end product manufacturers need to ensure that the products they purchase meet the specification requirements as per regulatory requirements.

## Register of formulation categories

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## Transparent shampoo with vegetable-derived conditioners

Formulation no.: 14171

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	1.0	Nonionic surfactant, emulsifier
	PARAFOL 12 RSPO-MB	1	Dodecane	1.0	Secondary hair conditioning agent
	PARAFOL 22-95	1	Docosane	0.5	Secondary hair conditioning wax
	MARLOWET COE 329	1	PEG-7 Glyceryl Cocoate	1.0	Solubilizer and Co-emulsifier
	Jjoba oil	32	Simmondsia Chinensis Seed Oil	0.5	Natural oil
	Glycerine		Glycerin	0.5	Moisturizing agent
B	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
C	U-Care Polymer JR 400	75	Polyquaternium-10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	0.2	
E	Antil 127	3	PEG-120 Methyl Glucose Dioleate	q.s.	Thickening agent

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A), (B) and (C) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value
6. Add phase (E) to (ABCD) and homogenize

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

## Transparent anti-dandruff shampoo with argan oil

Formulation no.: 15715

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	15.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	2.0	Nonionic surfactant, emulsifier
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.3	Moisturizing agent
	Argan oil	32	Argania Spinosa Kernel Oil	0.5	Natural oil
	Octopirox	8	Piroctone Olamine	0.25	Anti-dandruff agent
	Plantacare 1200 UP	16	Lauryl Glucoside	1.0	Co-surfactant
B	Caffeine		Caffeine	0.3	Improves microcirculation
	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	1.5	
C	Demin. water		Aqua	25.0	
	U-Care Polymer JR 400	75	Polyquaternium-10	0.3	Quaternary conditioning agent
D	Demin. water		Aqua	add to 100	
	Preservative			q.s.	Preservative
E	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	0.3	
	Antil 141 liquid	3	Propylene Glycol (and) PEG-55 Propylene Glycol Oleate	q.s.	Thickening agent

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A), (B) and (C) separately
2. Add phase (B) slowly to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value
6. Add phase (E) to (ABCD) and homogenize

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

## Pump foam shampoo with urea

Formulation no.: 14835

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C5 RSPO-MB	1	Sodium Laureth Sulfate	10.0	Base surfactant, high foaming power
	Demin. Water		Aqua	30.0	
B	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.2	Moisturizing emollient
	COSMACOL OE	1	Dicaprylyl Ether	0.2	Very light, good spreading emollient
	COSMACOL EMI	1	DI-C12-13 Alkyl Malate	0.2	Conditioning and moisturizing emollient
	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant, foam booster
C	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.1	Moisturizing and caring emollient
	Urea		Urea	5.0	
D	Demin. water		Aqua	20.0	Quaternary conditioning agent
	U-Care Polymer JR 400	75	Polyquaternium-10	0.1	
E	Demin. water		Aqua	add to 100	Preservative
	Preservative			q.s.	

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A), (C) and (D) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (E) to (ABCD) and homogenize

Foam quality: fine and dense

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid-viscous, slightly yellow, transparent

## Shampoo for sensitive scalp

Formulation no.: 15825

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C RSPO-MB	1	Sodium Laureth Sulfate	12.0	Base surfactant, high foaming power
	Demin. water		Aqua	30.0	
B	MARLOSOL PK 9040	1	Laureth-4	2.0	Nonionic surfactant, emulsifier
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.3	Moisturizing emollient
	Panthenol (w=0.75)	4	Panthenol	1.0	Active care agent
	Tego Betain F 50	3	Cocamidopropyl Betaine	6.0	Co-surfactant
	Plantacare 1200 UP	16	Lauryl Glucoside	1.0	Co-surfactant
	Allantoin		Allantoin	0.1	Active care agent
	Nicotinamid		Niacinamide	0.2	Active care agent
	Perfume "Fruity"	27	Parfum (EU) / Fragrance (US)	0.3	Preservative
Demin. water		Aqua	add to 100		
C	U-Care Polymer JR 400	75	Polyquaternium 10	0.3	Quaternary conditioning agent
	Demin. water		Aqua	25.0	
D	NaCl		Sodium Chloride	1.5	Thickening agent

\*) Supplier list page 70

### Preparation:

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (D) to (ABC) and homogenize

Viscosity (Haake, RS1, 10s<sup>-1</sup>): ~ 10.000 mPas, 20 °C

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: viscous, transparent

## Hair conditioner without silicones and emulsifier

Formulation no.: 15128

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Genamin CTAC 50	8	Cetrimonium Chloride	2.0	Quaternary conditioning agent
B	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	4.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	1.0	Conditioning and moisturizing agent
	ISOFOL 24	1	Decyltetradecanol	0.75	Polar emollient, medium spreading emollient
	Genamin BTLF	8	Behentrimonium Chloride	1.0	Quaternary conditioning agent
C	Preservative			q.s.	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Adjust the pH-value

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Conditioning hair butter

Formulation no.: 15450

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerine		Glycerin	3.0	Moisturizing agent	
B	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid	
	GALENOL 1618 AE RSPO-MB	1	Cetearyl Alcohol (and) Cetareth-20	3.0	Nonionic self-emulsifying mixture for O/W-emulsions	
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	3.0	Co-emulsifier, consistency regulator	
	PARAFOL 12 RSPO-MB	1	Dodecane	1.0	Secondary hair conditioning agent	
	PARAFOL 22-95	1	Docosane	1.0	Secondary hair conditioning wax	
	COSMACOL OE	1	Dicaprylyl Ether	2.0	Very light, good spreading emollient	
	TITANEL	1	Synthetic Wax	2.0	Consistency regulator	
	Shea butter	32	Butyruspermum Parkii Butter	1.0	Natural butter	
	C	Carbopol Ultrez 10 Polymer (w= 0.03)	30	Carbomer	5.0	Thickening and stabilizing agent
	D	Preservative			q.s.	
Perfume "Commage"		27	Parfum (EU) / Fragrance (US)	q.s.		
NaOH (w=0.01)			Sodium Hydroxide	q.s.	Neutralizing agent	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) and (D) and homogenize

Viscosity (Haake, RS1, 1s<sup>-1</sup>): ~ 35.000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

## Transparent liquid hand foam

Formulation no.: 15156

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C5 RSPO-MB	1	Sodium Laureth Sulfate	6.0	Base surfactant, high foaming power
	Demin. Water			30.0	
B	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.1	Thickening and moisturizing emollient
	MARLOWET COE 329	1	PEG-7 Glyceryl Cocoate	0.1	Solubilizer and co-emulsifier
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Glycerine		Glycerin	1.0	Moisturizing agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	0.3	
	Preservative			q.s.	Preservative
	Lactic acid	9	Lactic Acid	0.1	Moisturizing agent
	Tego Betain F 50	3	Cocamidopropyl Betaine	4.9	Co-surfactant, foam booster
	Demin. Water			add to 100	

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: at least 3 month stable at 8 °C, room temperature and 40 °C

Appearance: liquid, transparent

## Hand soap

Formulation no.: 15714

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C RSPO-MB	1	Sodium Laureth Sulfate	7.0	Base surfactant, high foaming power
	Demin. water		Aqua	30.0	
B	MARLOSOL PK 9040	1	Laureth-4	2.5	Nonionic surfactant, emulsifier
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.3	Moisturizing emollient
	Tego Betain F 50	3	Cocamidopropyl Betaine	4.7	Co-surfactant
	Panthenol (w=0.75)	4	Panthenol	1.0	Active care agent
	Glycerine		Glycerin	1.0	Moisturizing agent
	Urea		Urea	0.3	Moisturizing agent
	Sorbitol		Sorbitol	0.1	Moisturizing agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	0.3	
	Preservative			q.s.	Preservative
	Demin. water		Aqua	add to 100	
C	NaCl		Sodium Chloride	0.6	Thickening agent

\*) Supplier list page 70

### Preparation:

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value
2. Add phase (C) to (AB) and homogenize

Viscosity (Haake, RS1, 10s<sup>-1</sup>): ~ 4.000 mPas, 20 °C

Storage stability in terms of appearance: stable at room temperature, 8 °C and 40 °C for at least 3 months

Appearance: viscous, transparent

## Caring shower gel with olive oil

Formulation no.: 15093

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	3.5	Nonionic surfactant, emulsifier
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.4	Moisturizing emollient
	Olive oil	32	Olea Europaea Fruit Oil	1.0	Natural oil
	Plantacare 1200 UP	16	Lauryl Glucoside	0.5	Co-surfactant
B	Tego Betain F 50	3	Cocamidopropyl Betaine	6.0	Co-surfactant
	NaCl		Sodium Chloride	0.5	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid, slightly yellow, transparent

## Shower cream

Formulation no.: 15680

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Keltrol CG T	5	Xanthan Gum	0.5	Thickening agent, hydrocolloid
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.0	Co-emulsifier, consistency regulator
	Almond oil	32	Prunus Amygdalus Dulcis Oil	5.0	Natural oil
	Cocoa butter	32	Theobroma Cacao Seed Butter	1.0	Natural butter
	MARLINAT 242/28 RSPO-MB	1	Sodium Laureth Sulfate	30.0	Basic surfactant, high foaming power
C	Tego Betain F50	3	Cocamidopropyl Betaine	10.0	Co-surfactant, foam booster
	Glycerine		Glycerin	1.0	Moisturizing agent
	Demin. water		Aqua	10.0	
	Panthenol (w=0.75)	4	Panthenol	0.7	Active care agent
	Perfume "Cocos"	27	Parfum (EU) / Fragrance (US)	0.1	
	Plantacare 1200 UP	16	Lauryl Glycoside	0.5	Co-surfactant
	Tocopherol	4	Tocopherol	0.1	Antioxidant
	Preservative			q.s.	Preservative
	Schercemol LL Ester	30	Lauryl Lactate	2.0	Light, velvety emollient

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70°C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) and (D) and homogenize

Viscosity (Haake, RS1, 10s<sup>-1</sup>): ~ 2.000 mPas, 20 °C

Storage stability in terms of appearance: stable at room temperature, 8°C and 40°C for at least 3 months

Appearance: creamy, viscous



## Water free shower cream

Formulation no.: 15953

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	23.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	25.0	Nonionic surfactant, emulsifier
	Hemp oil	32	Cannabis Sativa Seed Oil	47.7	Natural oil
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.3	
B	LIPOXOL 3350 MED	1	PEG-75	4.0	Moisturizing, solubilizing and viscosity regulating agent

\*) Supplier list page 70

### Preparation:

1. Homogenize phase (A)
2. Heat phase (B) and add it to (A) and homogenize

Storage stability in terms of appearance: stable at room temperature, 8 °C and 40 °C for at least 3 months

Appearance: solid

## Foaming bath additive for kids

Formulation no.: 14150

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C RSPO-MB	1	Sodium Laureth Sulfate	17.1	Base surfactant, high foaming power
	MARLOWET COE 329	1	PEG-7 Glyceryl Cocoate	0.5	Solubilizer and co-emulsifier
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.5	Thickening and moisturizing emollient
	Tego Betain F 50	3	Cocamidopropyl Betaine	7.9	Co-surfactant
	NaCl		Sodium Chloride	1.3	Thickening agent
	Demin. water		Aqua	add to 100	
B	Preservative			q.s.	Preservative
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	0.1	

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: viscous

## Caring pump foam for babies

Formulation no.: 15094

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	12.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	2.0	Nonionic surfactant
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.3	Moisturizing emollient
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	1.0	Natural oil
	Almond oil	32	Prunus Amygdalus Dulcis Oil	0.5	Natural oil
	Tegobetain 810	3	Capryl/Capramidopropyl Betaine	0.5	Co-surfactant
	Glycerine		Glycerin	0.5	Moisturizing agent
	Plantacare 1200 UP	16	Lauryl Glucoside	0.5	Co-surfactant
	Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	
B	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	1.0	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value
5. Add phase (D) to (ABC) and homogenize

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid-viscous, slightly yellow

## Transparent caring mild shower gel for sensitive skin

Formulation no.: 13224

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	18.0	Base surfactant, high foaming power	
	MARLOWET CG	1	PEG-18 Castor Oil Dioleate	4.0	Emulsifier for oils	
	MARLINAT 242/70 C RSPO-MB	1	Sodium Laureth Sulfate	4.0	Base surfactant	
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	2.0	Natural oil	
	Sweet Almond oil	32	Prunus Amygdalus Dulcis	1.75	Natural oil	
	Calendula oil	32	Calendula Officinalis Flower Extract	1.0	Natural oil	
	Evening Primrose oil	32	Oenothera Biennis Oil	0.75	Natural oil	
	Glycerine		Glycerin	1.0	Moisturizing agent	
	B	Tego Betain F 50	3	Cocamidopropyl Betaine	4.0	Co-surfactant
		NaCl		Sodium Chloride	3.5	
	Demin. water		Aqua	25.0		
C	Demin. water		Aqua	add to 100		
D	Ronacare Bisabolol	9	Bisabolol	0.1	Active care agent	
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent	
	Preservative			q.s.	Preservative	
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.		
E	Antil 127	3	PEG-120 Methyl Glucose Dioleate	q.s.		

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value and add phase (E) to (ABCD)

Foam quality: fine and dense

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid-viscous, slight yellow, transparent

**Beard balm**

Formulation no.: 15584

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
B	GALENOL 1618 AE RSPO-MB	1	Cetearyl Alcohol (and) Ceteareth-20	4.0	Nonionic self-emulsifying mixture for O/W-emulsions
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	1.0	Wrinkle reduction, moisturizing emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	1.0	Medium spreading emollient
	Aloe Vera gel		Aloe Barbadensis Leaf Juice	0.5	Active care agent
	Sweet Almond oil	32	Prunus Amygdalus Dulcis Oil	1.0	Natural oil
	Shea butter	32	Butyruspermum Parkii Butter	1.0	Natural butter
Cocoa butter	32	Theobroma Cacao Seed Butter	0.5	Natural butter	
C	Demin. water		Aqua	10.0	
	Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
D	Carbopol Ultrez 10 (w=0.03)	30	Carbomer	5.0	Thickening and stabilizing agent agent
E	Preservative			q.s.	
	NaOH (w = 0.2)		Sodium Hydroxide	q.s.	Neutralizing agent
	Perfume "2Men"	27	Parfum (EU) / Fragrance (US)	0.05	

\*) Supplier list page 70

**Preparation:**

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 29,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

**Shaving foam**

Formulation no.: 15011

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70 C RSPO-MB	1	Sodium Laureth Sulfate	5.0	Base surfactant, high foaming power
	Demin. water		Aqua	20.0	
B	MARLIPAL 24/120	1	Laureth-12	1.0	Co-emulsifier
	Triethanolamine pure, cosmetic	1	Triethanolamine	5.0	Neutralizing agent
	Coconut fatty acid		Coconut Acid	5.0	Surfactant
	Glycerine		Glycerin	2.0	Moisturizing agent
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	q.s.	
	Demin. water		Aqua	add to 100	
C	Sodium sulfate		Sodium Sulfate	0.2	
	Preservative			q.s.	Preservative

\*) Supplier list page 70

**Preparation (at room temperature):**

1. Heat phase (A)
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid

## Caring facial cleansing foam

Formulation no.: 13762

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	10.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	1.5	Nonionic surfactant, emulsifier
	COSMACOL OE	1	Dicaprylyl Ether	0.3	Very light, good spreading emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.3	Moisturizing emollient
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	0.8	Natural oil
	Plantacare 1200 UP	16	Lauryl Glucoside	0.3	Co-surfactant
	Glycerine		Glycerin	0.3	Moisturizing agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	0.2	
B	Tego Betain F 50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	NaCl		Sodium Chloride	1.5	
	Demin. water		Aqua	25.0	
C	Demin. water		Aqua	add to 100	
D	Preservative			q.s.	Preservative
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid, slightly yellow, transparent

## Anti-acne facial cleanser foam

Formulation no.: 14410

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	COSMACOL OE	1	Dicaprylyl Ether	3.5	Very light, good spreading emollient
	Salicylic acid		Salicylic Acid	1.0	Anti-acne agent
	Ethanol		Ethanol	1.5	Solubilizing agent
B	MARLINAT 242/90 MC RSPO-MB	1	MIPA Laureth Sulfate (and) Propylene Glycol	10.0	Base surfactant, high foaming power
	MARLOSOL PK 9040	1	Laureth-4	1.5	Nonionic surfactant, emulsifier
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	0.3	Conditioning and moisturizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.3	Moisturizing emollient
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	0.3	Solubilizing emollient
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	0.1	
C	NaCl		Sodium Chloride	1.0	
	Tego Betain F50	3	Cocamidopropyl Betaine	5.0	Co-surfactant
	Demin. water		Aqua	25.0	
D	Demin. water		Aqua	add to 100	
E	Preservative			q.s.	Preservative
	D-Panthenol (w = 0.75)	4	Panthenol	0.7	Active care agent

\*) Supplier list page 70

### Preparation (at room temperature):

1. Homogenize phase (A), (B) and (C) separately
2. Add phase (A) to (B) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value and add phase (E) to (ABCD) and homogenize

Foam quality: fine and dense

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid, slightly yellow, transparent

## Concentrate for micellar water

Formulation no.: 14618

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/90 MC	1	MIPA Laureth Sulfate (and) Propylene Glycol	30.0	Base surfactant, high foaming power
	RSPO-MB				
	MARLOSOL PK 9040	1	Laureth-4	5.0	Nonionic surfactant, emulsifier
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient
B	NaCl		Sodium Chloride	1.0	
	Demin. water		Aqua	40	
C	Demin. water		Aqua	add to 100	
D	Phenonip			0.7	

\*) Supplier list page 70

### Preparation at room temperature:

1. Homogenize phase (A) and (B) separately
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. When phase (ABC) is transparent add phase (D) and homogenize
5. Adjust the pH-value to ~4

### Processing to get micellar water

Phase	Trademark	Weight [%]
ABCD	Concentrate for micellar water	3.0
E	Demin. water	add to 100
F	Preservative, optional water soluble additives	q.s.
	Perfume	q.s.

### Preparation:

1. Add phase (E) to phase (ABCD) and homogenize
2. Add phase (F) and homogenize

Foam quality: fine and dense

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid, slightly yellow, transparent

## Pump foam with ethanol

Formulation no.: 15225

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLINAT 242/70	1	Sodium Laureth Sulfate	7.2	Base surfactant, high foaming power
	C5 RSPO-MB				
	Demin. Water		Aqua	add to 100	
B	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.2	Moisturizing emollient
	MARLOWET COE 329	1	PEG-7 Glyceryl Cocoate	0.2	Solubilizer and co-emulsifier, re-fattening agent
	Ethanol		Alcohol	20.0	Bactericide
	Tego Betain F50	3	Cocamidopropyl Betaine	7.3	Co-surfactant, foam booster
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.2	

\*) Supplier list page 70

### Preparation at room temperature:

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value

Foam quality: fine and dense

Storage stability in terms of appearance: at least 3 months stable at 8 °C, room temperature and 40 °C

Appearance: liquid, transparent

## Transparent gel with ethanol

Formulation no.: 15199

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Carbopol Ultrez 20 Polymer	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.3	Rheological additive
B	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.0	Moisturizing emollient, sebum regulating
	Ethanol (96%)		Alcohol denat.	65.0	
C	Triethanolamine pure, cosmetic	1	Triethanolamine	q.s.	Neutralizing agent, pH adjustment

\*) Supplier list page 70

### Preparation:

1. Homogenize phase (A) and (B)
2. Add phase (B) to (A) and homogenize
3. Adjust the pH-value by addition of phase (C) to (AB) to pH 6.0 - 6.5

Storage stability in terms of appearance: at least 3 months stable at 8 °C, room temperature and 40 °C

Appearance: viscous, transparent

## Hand lotion with ethanol

Formulation no.: 15449

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Panthenol (w = 0.75)	4	Panthenol	2.0	Active care agent	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid	
B	EMULDAC AS 25	1	Cetareth-25	3.0	Emulsifier	
	NACOL 20-95	1	Arachidyl Alcohol	3.0	Viscosity increasing agent, emulsion stabilizer	
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient	
	PARAFOL 12 RSPO-MB	1	Dodecane	2.0	Very light spreading emollient, Cyclomethicone replacer	
	PARAFOL 22-95	1	Docosane	2.0	Replacement for Dimethicone	
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	1.0	Natural oil	
	Sunflower oil	32	Helianthus Annuus Seed Oil	2.0	Natural oil	
	Rapeseed oil	32	Brassica Campestris Seed Oil	1.0	Natural oil	
	C	Tocopherol	4	Tocopherol	q.s.	Antioxidant
	D	Demin.water with 3% Carbopol Ultrez 10	30	Carbomer	15.0	Thickening agent
E	Preservative			q.s.		
	NaOH (w = 0.20)		Sodium Hydroxide	q.s.	Neutralizing agent	
	Ethanol		Alcohol denat.	20.0	Bactericide	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize
5. Adjust the pH-value and add phase (E) to (ABCD) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 52,600 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Day cream

Formulation no.: 13751

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate/VP Copolymer	0.5	Gelling agent and thickener
B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.5	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	DI-C12-13 Alkyl Malate	2.5	Wrinkle reduction, moisturizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic, skin smoothing emollient
	COSMACOL OE	1	Dicaprylyl Ether	1.0	Very light, good spreading emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	2.5	Medium spreading emollient
	Argan oil	32	Argania Spinosa Kernel Oil	3.0	Natural oil
	Beeswax	32	Beeswax	1.0	Consistency regulator
Eusolex 2292	9	Ethylhexyl Methoxycinnamate	3.0	UVB-filter	
C	Tocopherol	9	Tocopherol	q.s.	Antioxidant
D	Demin. water		Aqua	10.0	
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Citric acid (w = 0.20)			0.25	
E	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.05	
	Preservative			q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Add phase (D) and to (ABC) and homogenize
5. Add phase (E) and to (ABCD) and homogenize
6. Adjust the pH-value to ~4

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 43,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Night cream

Formulation no.: 14151

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CGT	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate/VP Copolymer	0.8	Gelling agent and thickener
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	DI-C12-13 Alkyl Malate	6.0	Wrinkle reduction, moisturizing emollient
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	3.0	Mild keratolytic, skin smoothing emollient
	PARAFOL 14 RSPO-MB	1	Tetradecane	4.0	Emollient, replacement for Isoalkanes
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	3.0	Medium spreading emollient
	MERKUR 773	33	Petrolatum	0.5	Emollient
Shea butter		Buryspermum Parkii Butter	2.0	Natural butter	
C	Bisabolol	9	Bisabolol	0.3	Active care agent
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.0	Hard fat, consistency regulator
	Demin. water		Aqua	10.0	
D	D-Panthenol (w = 0.75)	4	Panthenol	1.5	Active care agent
	Preservative			q.s.	
E	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.05	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 30,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Atopic lotion

Formulation no.: 15560

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	ISOFOL 24	1	Decyltetradecanol	5.0	Medium spreading and conditioning emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	5.0	Moisturizing emollient, sebum regulating
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	5.0	Wrinkle reduction, moisturizing emollient
	TITANEL	1	Synthetic Wax	5.0	Consistency regulator
	IMWITOR 600	31	Polyglyceryl-3 Polyricinoleate	5.0	W/O emulsifier
	Evening Primrose Oil	32	Oenothera Biennis Oil	10.0	Natural oil
	Mangobutter	32	Mangifera Indica Seed Butter	0.5	Natural butter
B	Demin. Water		Aqua	add to 100	
	Magnesium Sulfate		Magnesium Sulfate	1.0	Stablizing agent
C	Tocopherol	4	Tocopherol	0.5	Antioxidant
	Preservative			q.s.	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 80 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 12,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid-viscous

## Eye care lotion (SPF 10)

Formulation no.: 15129

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	4.0	Moisturizing agent
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizing agent
	NAFOL 1822 C	1	Behenyl Alcohol	1.5	Co-emulsifier, consistency regulator
	MARLOWET COE 329	1	PEG-7 Glyceryl Cocoate	1.5	Solubilizer and Co-emulsifier
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction, moisturizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic, skin smoothing emollient
	ISOFOL 16 RSPO-MB	1	Hexyldecanol	3.0	Medium spreading emollient
	Eusolex 9020	9	Butyl Methoxydi-benzoylmethane	1.0	UVA-filter
	Eusolex OCR	9	Octocrylene	5.0	UVB-filter
	Eusolex OS	9	Ethylhexyl Salicylate	5.0	UVB-filter
	Pomegranate Seed oil	32	Punica Granatum Seed Oil	1.0	Natural oil
C	Beeswax	32	Cera Flava	1.0	Natural wax
	Tocopherol acetate	4	Tocopheryl Acetate	q.s.	Active care agent
D	Tocopherol	4	Tocopherol	q.s.	Antioxidant
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.05	
E	Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Demin. water		Aqua	10.0	
E	1,2 Propandiol		Propylene Glycol	1.0	Humectant
	Phenoxyethanol		Phenoxyethanol	0.5	
	Hydrolite 5	6	Pentylene Glycol	2.0	Emulsion stabilizer

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 15,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid-viscous

## Information:

Calculated SPF: 10.3

UVA-PF/SPF [&gt;0.33]: 0.42

Critical Wavelength: 373 nm



## Sensitive after shave balsam

Formulation no.: 15532

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Allantion		Allantoin	0.1	Active care agent
B	CERALUTION H RSPO-MB	1	See page 71	2.5	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction, moisturizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.0	Moisturizing emollient, sebum regulating
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic, skin smoothing emollient
	PARAFOL 14 RSPO-MB	1	Tetradecane	2.0	Good spreading emollient
	Shea butter	32	Butyruspermum Parkii Butter	1.0	Natural butter
	Tocopherol acetate	4	Tocopheryl Acetate	0.4	Active care agent
C	Demin. water		Aqua	10.0	
	Panthenol (w = 0.75)	4	Panthenol	1.5	Active care agent
D	Carbopol Ultrez 10 (w=0.03)	30	Carbomer	5.0	Thickening and stabilizing agent
E	Preservative			q.s.	
	NaOH (w = 0.2)		Sodium Hydroxide	q.s.	Neutralizing agent
	Perfume "2Men"	27	Parfum (EU) / Fragrance (US)	0.05	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 13,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid-viscous

## Hydro energy gel for men

Formulation no.: 15954

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	LIPOXOL 400 MED	1	PEG-8	6.0	Moisturizing emollient, sebum regulating
	Glycerine		Glycerin	6.0	Moisturizing agent
	Demin. water		Aqua	28.7	
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent
	Rapithix A100	84	Sodium Polyacrylate	0.5	Thickening and stabilizing agent
B	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.0	Moisturizing emollient, sebum regulating
	COSMACOL OE	1	Dicaprylyl Ether	2.0	Very light, good spreading emollient
	PARAFOL 12 RSPO-MB	1	Dodecane	1.0	Fast spreading emollient, replacement for Cyclomethicone
	Mango butter	32	Mangifera Indica Seed Butter	1.0	Natural butter
C	Menthol		Menthol	0.25	Cooling agent
	Ethanol (96%)		Alcohol denat.	25.0	Cooling agent
D	Carbopol Ultrez 10	30	Carbomer	0.5	Thickening and stabilizing agent
	Demin. water		Aqua	add to 100	
E	Preservative			q.s.	
F	Sodium Hydroxide 10 % in water		Sodium Hydroxide	q.s.	pH adjustment

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Add phase (D) and (E) and homogenize
5. Adjust the pH-value by adding phase (F)

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 31,500 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## CC lotion

Formulation no.: 15842

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Glycerine		Glycerin	5.0	Moisturizing agent
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	NAFOL 16185 RSPO-MB	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	3.0	Medium spreading emollient
	PARAFOL 12 RSPO-MB	1	Dodecane	5.0	Fast spreading emollient, replacement for cyclomethicone
	Cocoa butter	32	Theobroma Cacao Seed Butter	1.0	Natural butter
B1	COSMACOL EBL	1	C12-15 Alkyl Benzoate	5.0	Solubilizing agent
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction, moisturizing emollient
	Soft Tex White C47-7756	58	CI 77891	6.0	Colour agent
	Soft Tex Black C33-5000	58	CI 77499	0.1	Colour agent
	Soft Tex Yellow C33-1700	58	CI 77492	1.25	Colour agent
	Soft Tex Red C33-2199	58	CI 77491	0.2	Colour agent
	Soft Tex Brown C33-7715	58	CI 77491, CI 77492, CI 77499	0.3	Colour agent
C	Demin. water		Aqua	10.0	
	Panthenol (w = 0.75)	64	Panthenol	1.0	Active care agent
D	Preservative			q. s.	Preservative
	Perfume		Parfum (EU) / Fragrance (US)	q. s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Homogenize phase (B1) and add (B1) to (B), homogenize
3. Add phase (B/B1) to (A) and homogenize
4. Cool to 35 °C and add phase (C) to (AB) and homogenize
5. Add phase (D) to (ABC) and homogenize
6. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 21,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Lip care with natural based and caring emollients (SPF 20 - EU)

Formulation no.: 15154

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	NAFOL 1618 S RSPO-MB	1	Cetearyl Alcohol	15.0	Co-emulsifier, consistency regulator
	Hywax 3971	33	Microcrystalline Wax	20.0	Structure and hardness, consistency regulator
	Cocoa butter	32	Theobroma Cacao Seed Butter	10.0	Natural butter
	Shea butter	32	Butyrospermum Parkii Butter	10.0	Natural butter
	Beeswax	32	Cera Alba	2.0	Natural wax
	Eusolex 9020	9	Butyl Methoxydibenzoyl-methane	5.0	UVA-filter
B	ISOFOL 20 RSPO-MB	1	Octyldodecanol	15.0	Medium spreading emollient
	Castor oil	32	Ricinus Communis Seed Oil	4.0	Natural oil
	Tocopheryl acetate	4	Tocopheryl Acetate	q.s.	Improves photo protection, active care agent
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Eusolex OS	9	Ethylhexyl Salicylate	5.0	UVB-filter
	Tocopherol	4	Tocopherol	q.s.	Antioxidant
	Perfume "Vanilla"		Parfum (EU) / Fragrance (US)	0.4	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) to 70 °C and homogenize
2. Add phase (B) and homogenize
3. Cool to 35 °C - 40 °C and adjust the pH-value

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Information:

Calculated SPF: 22.2

UVA-PF/SPF [&gt;0.33]: 0.69

Critical Wavelength: 376 nm

## Wind and weather cream

Formulation no.: 15930

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	6.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate / VP Copolymer	0.3	Gelling agent and thickener
B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction, moisturizing emollient
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic, skin smoothing emollient
	MERKUR 773	33	Petrolatum	2.0	Emollient
	Evening primrose oil	32	Oenothera Biennis Oil	2.0	Natural oil
	Calendula oil	32	Calendula Officinalis Flower Oil	3.0	Natural oil
	Joboba oil	32	Simmondsia Chinensis Seed Oil	3.0	Natural oil
	Bees wax	32	Cera Alba	1.5	Natural wax
	Tocopherol acetate	4	Tocopherol Acetate	0.3	Active care agent
	Tocopherol	4	Tocopherol	0.1	Antioxidant
	D	Demin. water		Aqua	10.0
Panthenol (w=0.75)	4	Panthenol	2.0	Active care agent	
E	Preservative			q.s.	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 44,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Soft care foam with SPF 10

Formulation no.: 15366

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	12.5	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.4	Thickening agent / hydrocolloid
	Plantacare 810 UP	16	Plantacare 810 UP	1.5	
B	CERALUTION H RSPO-MB	1	See page 71	1.0	Emulsifier/ reduces crow feet wrinkles/ moisturizer
	ISOFOL 18T	1	Octyldecanol	4.0	Medium spreading emollient
	COSMACOL OE	1	Dicaprylyl Ether	1.0	Very light, good spreading emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic, skin smoothing emollient
	Evening primrose oil	32	Oenothera Biennis Oil	1.0	Natural oil
	Mango butter	32	Mangifera Indica Seed Butter	1.0	Natural butter
	Aloe vera oil		Aloe Barbadensis Leaf Juice	0.5	Active care agent
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	1.5	UVA-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	3.0	UVB-filter
Eusolex OCR	9	Octocrylene	3.0	UVB-filter	
C	Tocopherol	9	Tocopherol	0.1	Antioxidant /stabilizer for oxygen sensitive ingredients
D	Demin. water		Aqua	add to 100	
E	Phenonip			0.7	Preservative
F	Tego Betain 810	3	Capryl/Capramidopropyl Betaine	1.5	Co-surfactant
	Protelan LS 9011	39	Sodium Lauroyl Sarcosinate	1.5	Co-surfactant

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D), (E) and (F) to (AB) and homogenize
4. Adjust the pH-value

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Basic milk with jojoba

Formulation no.: 15002

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CPE	1	See page 71	4.0	Self-emulsifying concentrate / cold-processing possible / for sprays, wipes, lotions, creams
B	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	1.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.5	Moisturizing emollient, sebum regulating
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	6.5	Medium spreading emollient
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	1.0	Natural oil
C	Demin. water		Aqua	add to 100	
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent, hydrocolloid
	Glycerine		Glycerin	2.0	Moisturizing agent
D	Preservative			q.s.	

\*) Supplier list page 70

### Preparation:

1. Add phase B to A at room temperature and homogenize. Please make sure that phase B is added slowly, otherwise local and irreversible phase inversion can occur.
2. Add phase C, after the Keltrol is well swelled, to AB and homogenize
3. Add phase D to phase ABC and homogenize.

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 4,400 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid

## Baby wound protection lotion

Formulation no.: 16002

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Keltrol CG T	5	Xanthan Gum	0.5	Thickening agent / hydrocolloid	
	Glycerine		Glycerin	4.0	Moisturizing agent	
B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier / reduces crow feet wrinkles / moisturizer	
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.0	Co-emulsifier / consistency regulator	
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	6.0	Solubilizing emollient	
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Moisturizing emollient	
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.0	Medium spreading emollient	
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	5.0	Medium spreading emollient	
	MERKUR 773	33	Petrolatum	3.0	Emollient	
	Shea butter	32	Butyruspermum Parkii Butter	1.0	Natural butter	
	Evening primrose oil	32	Oenothera Biennis Oil	1.0	Natural oil	
	Arlacel P 135	61	PEG-30 Dipolyhydroxys-tearate	0.2	Emulsifier	
	Tocopheryl Acetate	4	Tocopheryl Acetate	0.5	Active care agent	
	Z-Cote	16	Zinc Oxide	8.0	Antimicrobial, skin protecting	
	D	Citric acid (w = 0.20)		Citric Acid	q.s.	pH-adjustment (~pH6-7)
		Preservative			q. s.	Preservative
	Perfume "Hydra Expert"	27	Parfum (EU) / Fragrance (US)	q. s.		

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (C) to (B) and homogenize
3. Add phase (BC) to (A) and homogenize
4. Cool to 35 °C and add phase (D) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 26,500 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Hand protection cream

Formulation no.: 15661

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	4.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Rapithix A 100	60	Sodium Polyacrylate	0.3	Thickening agent
B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.5	Co-emulsifier, consistency regulator
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	3.0	Solubilizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic, skin smoothing emollient
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	3.0	Medium spreading emollient
	Almond oil	32	Prunus Amygdalus Dulcis Oil	1.0	Natural oil
	Mango butter	32	Mangifera Indica Seed Butter	0.5	Natural butter
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	7.0	UVA/UVB-filter
	Tocopherol acetate	4	Tocopherol acetate	0.5	Active care agent
C	Demin. water		Aqua	10.0	
	Ascorbic Acid		Ascorbic Acid		Active care agent
	Panthenol (w=0.75)	4	Panthenol	1.0	Active care agent
D	Preservative			q.s.	
	NaOH (w=0.2)		Sodium Hydroxide	q.s.	pH-adjustment (pH 5-6)
	Perfume "Fruity"	27	Parfum (EU) / Fragrance (US)	0.1	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (D) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 42,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Balm for leg care and soft skin

Formulation no.: 15275

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Allantoin	9	Allantoin	0.1	Active care agent	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid	
	Glycerine		Glycerin	5.0	Moisturizing agent	
	Crinipan AD		Climbazole	0.1	Active care agent	
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate	0.35	Buffer – pH adjustment	
	B	CERALUTION H RSPO-MB	1	See page 71	5.0	Emulsifier/ reduces crow feet wrinkles/ moisturizer
		NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.5	Co-emulsifier/consistency regulator
COSMACOL OE		1	Dicaprylyl Ether	3.0	Very light, good spreading emollient	
COSMACOL EMI		1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient	
ISOFOL 20 RSPO-MB		1	Octyldodecanol	10.0	Medium spreading emollient	
MERKUR 773		33	Petrolatum	2.0	Emollient	
Sweet Almond oil		32	Prunus Amygdalus Dulcis Oil	1.0	Natural oil	
Beeswax		32	Cera Alba	1.0	Natural wax	
Bisabolol		9	Bisabolol	0.1	Active care agent	
Tocopheryl acetate		9	Tocopheryl Acetate	q.s.	Active care agent	
C	Demin. water		Aqua	10.0		
	Panthenol (w = 0.75)	64	Panthenol	1.0	Active care agent	
	Urea		Urea	5.0	Moisturizing agent	
	Sodium lactate (w=0.5)		Sodium Lactate	1.0	Moisturizing agent/buffer agent	
D	Preservative			q.s.	Preservative	
	Frescolat ML	6	Menthyl Lactate	0.1	Long lasting cooling agent	
	Ethanol		Alcohol denat.	5.0	Cooling agent	
	Perfume		Parfum (EU) / Fragrance (US)	q.s.		

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Brookfield, DV3T): ~ 53,500 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature and 40 °C for at least 3 months

Appearance: viscous

## Tattoo care cream

Formulation no.: 15565

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Keltrol CGT	5	Xanthan Gum	0.5	Thickening agent, hydrocolloid
	Glycerine		Glycerin	2.0	Moisturizing agent
	D-Panthenol (w = 0.75)	4	Panthenol	2.0	Active care agent
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.0	Co-emulsifier, consistency regulator
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	5.0	Medium spreading emollient
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	5.0	Solubilizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	TITANEL	1	Synthetic Wax	2.0	Consistency regulator
	Tocopherol acetate		Tocopheryl Acetate	1.0	Antioxidant
C	Hydrolite 5	6	Pentylene Glycol	5.0	Emulsion stabilizer
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A), (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and homogenize (C)
4. Adjust the pH-value

Viscosity (Brookfield, DV3T) : ~ 12.000 mPas, 25 °C

Storage stability in terms of appearance : stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Tattoo care stick (SPF 30)

Formulation no.: 15379

Phase	Trademark	*)	INCI name	Weight [%]	Function
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	15.0	Solubilizing emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	8.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	10.0	Moisturizing emollient, sebum regulating
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic, skin smoothing emollient
	ISOFOL 32	1	Tetradecyloctadecanol	4.0	Emollient, consistency regulator
	ISOFOL 28	1	Dodecylhexadecanol	7.0	Emollient, consistency regulator
	Tocopherol Acetate	4	Tocopheryl Acetate	0.5	Active care agent
	Beeswax		Cera Alba	11.5	Natural wax, consistency regulator
	ISOFOL 12	1	Butyloctanol	3.5	Light and good spreading emollient, solvent
	PARAFOL 22-95	1	Docosane	5.0	Replacement for Dimethicone
	TITANEL	1	Synthetic Wax	10.0	Consistency regulator
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	5.0	UVA-filter
	Eusolex T-Avo	9	Titanium Dioxide (and) Silica	7.5	Inorganic UVA/UVB-filter
	Ganex V-220	60	VP/ Eicosene Copolymer	1.0	Film former, water resistance improver

\*) Supplier list page 70

## Preparation at 80 °C:

Homogenize the components in the above given order while stirring continuously.

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: solid

## Information:

Calculated SPF: 30.9  
 UVA-PF/SPF [ $>0.33$ ]: 0.5

UVA/UVB Ratio: 0.81  
 Critical Wavelength: 377 nm

Star Rating: \*\*\*\*  
 UVA-PF: 15.5

## Caring anti-aging milk (SPF 6)

Formulation no.: 15130

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerine		Glycerin	6.0	Moisturizing agent	
	Keltrol CG T	5	Xanthan Gum	0.5	Thickening agent, hydrocolloid	
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer	
	NAFOL 1822 B	1	Behenyl Alcohol	1.5	Consistency regulator, increases viscosity	
	COSMACOL OE	1	Dicaprylyl Ether	5.0	Very light, good spreading emollient	
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction, moisturizing emollient	
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.5	Mild keratolytic, skin smoothing emollient	
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.5	Moisturizing emollient, sebum regulating	
	PARAFOL 12 RSPO-MB	1	Dodecane	4.0	Fast spreading emollient, Cyclomethicone replacer	
	Jajoba oil	32	Simmondsia Chinensis Seed Oil	1.0	Natural oil	
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	2.5	UVB-filter	
	Eusolex 9020	9	Butyl Methoxydibenzoyl-methane	1.0	UVA-filter	
	Beeswax	32	Cera Alba	1.0	Natural wax, consistency regulator	
	Ganex V-220	60	VP/Eicosene Copolymer	0.5	Film former, water resistance improver	
	Tocopheryl acetate	4	Tocopheryl Acetate	q.s.	Active care agent	
	C	Tocopherol	4	Tocopherol	q.s.	Antioxidant
	D	Panthenol (w=0.75)	4	Panthenol	1.0	Active care agent
Demin. water			Aqua	10.0		
E	Preservative			q.s.	Preservative	
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.05		

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 18,000 mPas, 25 °C

Storage stability in terms of appearance: Stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Anti-wrinkle lotion fragrance-free

Formulation no.: 15448

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Allantoin		Allantoin	0.3	Active care agent
B	Bisabolol	4	Bisabolol	0.1	Active care agent
	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier/ reduces crow feet wrinkles/ moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.5	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ELI	1	C12-C13 Alkyl Lactate	2.0	Very light, good spreading emollient
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	Avocado oil	32	Persea Gratissima Oil	1.0	Natural oil
	Aloe Vera gel		Aloe Barbadensis Leaf Juice	0.5	Active care agent
	Shea butter	32	Butyruspermum Parkii Butter	1.0	Natural butter
	C	Tocopherol	4	Tocopherol	0.3
D	Demin. water		Aqua	10.0	
	Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
E	Carbopol Ultrez 21 Polymer (w=0.03)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	5.0	Thickening and stabilizing agent
F	Preservative			q.s.	
	NaOH (w = 0.2)			q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D), (E) and (F) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 16,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Conditioning cream (free of emulsifier)

Formulation no.: 15007

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Rapithix A100	84	Sodium Polyacrylate	1.0	Thickening and stabilizing agent
B	NACOL 16-98 RSPO-MB	1	Cetyl Alcohol	5.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction, moisturizing emollient
	PARAFOL 12 RSPO-MB	1	Dodecane	1.5	Fast spreading emollient, replacement for Cyclomethicone
	PARAFOL 22-95	1	Docosane	4.0	Replacement for Dimethicone
	Almond oil	32	Prunus Amygdalus Dulcis Oil	1.0	Natural oil
	Shea butter	32	Butyrospermum Parkii Butter	2.5	Natural butter
	C	Panthenol (w=0.75)	4	Panthenol	1.0
Demin. water			Aqua	10.0	
D	Perfume "Raspberry"		Parfum (EU) / Fragrance (US)	0.05	
	Preservative			q.s.	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 100,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40°C and 50°C for at least 3 months

Appearance: viscous

## All purpose cream

Formulation no.: 15574

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	ISOFOL 20 RSPO-MB	1	Octyldodecanol	4.0	Medium spreading emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	TITANEL	1	Synthetic Wax	3.0	Consistency regulator
	MERKUR 500	33	Petrolatum	5.0	Emollient
	IMWITOR 600	31	Polyglyceryl-3 Polyricinoleate	4.0	W/O emulsifier
	Olive oil	32	Olea Europaea Fruit Oil	4.0	Natural oil
	B	Demin. water		Aqua	add to 100
Magnesium Sulfate			Magnesium Sulfate	1.0	Stabilizing agent
Panthenol (w = 0.75)		4	Panthenol	1.0	Active care agent
Glycerine			Glycerin	5.0	Moisturizing agent
C	Preservative			q.s.	
	Parfum	11	Parfum (EU) / Fragrance (US)	q.s.	Emollient with cooling effect

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) to 80 °C
2. Heat phase (B) to 70 °C
3. Add phase (B) to (A) and homogenize
4. Cool to 35 °C and add phase (C) to (AB) and homogenize
5. Adjust the pH-value

Viscosity (Brookfield, DV3T) : ~ 270.000 mPas, 25°C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous



**Butter cream**

Formulation no.: 15453

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Glycerine		Glycerin	5.0	Moisturizing agent
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier/ reduces crow feet wrinkles/ moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	2.0	Co-emulsifier/consistency regulator
	PARAFOL 12 RSPO-MB	1	Dodecane	2.0	Fast spreading emollient, Cyclomethicone replacer
	PARAFOL 22-95	1	Docosane	2.0	Replacement for Dimethicone
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	TITANEL	1	Synthetic Wax	4.0	Consistency regulator
C	Carbopol Ultrez 21 Polymer (3%)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	5.0	Thickening agent
D	NaOH (w = 0.2)		Sodium Hydroxide	0.2	Neutralizing agent
	Preservative			q.s.	Preservative
	Perfume "Care"	27	Parfum (EU)/ Fragrance (US)	1.0	Film former, water resistance improver

\*) Supplier list page 70

**Preparation:**

1. Heat phase (A) to 80 °C
2. Heat phase (B) to 90 °C
3. Add phase (B) to (A) and homogenize
4. Cool to 35 °C and add phase (C) and (D) to (AB) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 26.000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

**Anti-acne-lotion**

Formulation no.: 15348

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	3.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	Aristoflex AVC	8	Ammonium Acryloyl-dimethyltaurate/ VP Copolymer	0.3	Gelling agent and thickener
	Allantion		Allantoin	0.3	Active care agent
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.5	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	COSMACOL ECI	1	Tri-C12-13 Alkyl Citrate	2.0	Good spreading emollient
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient
	Calendula oil	32	Calendula Officinalis Flower Extract	1.0	Natural oil
	Castor oil	32	Ricinus Communis Seed Oil	1.0	Natural oil
	Argan oil	32	Argania Spinosa Kernel Oil	1.0	Natural oil
	Nicotinamide	4	Nicotinamide	0.5	Anti-acne agent
C	Tocopherol	4	Tocopherol	q.s.	Antioxidant
D	Demin. water		Aqua	10.0	
	Lactic acid	9	Lactic Acid	0.1	Buffer
	Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
E	Preservative			q.s.	

\*) Supplier list page 70

**Preparation:**

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35°C and add phase (C) to (AB) and homogenize
4. Add phase (D) to (ABC) and homogenize
5. Adjust the pH-value and add phase (E) to (ABCD) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 20,400 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous- creamy

## Sunscreen lotion (emulsifier free) - (SPF 30)

Formulation no.: 16011

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	1.5	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	1,2 Propandiol		Propylene Glycol	3.0	Humectant
B	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	3.0	Co-emulsifier, consistency regulator
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	5.0	Solubilizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.0	Moisturizing emollient, sebum regulating
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic, skin smoothing emollient
	Uvinul T 150	16	Ethylhexyl Triazone	1.0	UVB-filter
	Eusolex 9020	9	Butyl Methoxydibenzoyl-methane	5.0	UVA-filter
	Eusolex OS	9	Ethylhexyl Salicylate	3.0	UVB-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	4.0	UVA/UVB-filter
	Tocopheryl acetate	4	Tocopheryl Acetate	q.w.	Active care agent
	Grape Seed Oil	32	Vitis Vinifera Seed Oil	0.7	Natural oil
	Ganex V-220	60	VP/Eicosene Copolymer	0.5	Film former, water resistance improver
	C	Tocopherol	4	Tocopherol	q.s.
D	Carbopol Ultrez 10	30	Carbomer	0.2	Thickening and stabilizing agent
	Demin. water		Aqua	add to 100	
E	Preservative			q.s.	
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	0.05	
	Ethanol		Ethanol	3.0	Cooling agent
	Triethanolamin	1	Triethanolamin	q.s.	Neutralizing agent

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Heat phase (C) to 50 °C
4. Cool phase (AB) to 50 °C and add phase (C), (D) and (E) under stirring
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 12,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Information:

Calculated SPF: 30.7      UVA/UVB Ratio: 0.77      Star Rating: \*\*\*  
 UVA-PF/SPF >0.33]: 0.35      Critical Wavelength: 373 nm      UVA-PF: 10.9

## Sunscreen lotion (SPF 50)

Formulation no.: 16015

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	2.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.5	Co-emulsifier, consistency regulator
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	6.0	Solubilizing emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	4.0	Medium spreading emollient
	Avocado Oil	32	Persea Gratissima Oil	2.0	Natural oil
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	10.0	UVA/UVB-filter
	Eusolex OS	9	Ethylhexyl Salicylate	2.0	UVB-filter
	Oxynex ST	9	Diethylhexyl Syringylidene-malonate (and) Caprylic/Capric Triglyceride	0.5	Stabilizer
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former, water resistance improver
	B1	Eusolex T-AVO	9	Titanium Dioxide (and) Silica	10.0
C	Tocopherol	4	Tocopherol	q.s.	Antioxidant
D	Preservative			q.s.	
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	0.1	

\*) Supplier list page 70

## Preparation:

1. Homogenize phase (A) until the TiO<sub>2</sub> is well dispersed
2. Add phase (B) to (A)
3. Heat phase (AB) and (C) separately to 70 °C
4. Add phase (C) to (AB) and homogenize
5. Cool to 35 °C and add phase (D) to (ABC) and homogenize
6. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 31,300 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

## Information:

Calculated SPF: 54.1      Star Rating: \*\*\*  
 UVA-PF/SPF >0.33]: 0.33      Critical Wavelength: 373 nm      UVA-PF: 17.6

## Sun stick (SPF 50)

Formulation no.: 15977

Phase	Trademark	*)	INCI name	Weight [%]	Function
	NACOL 22-98	1	Behenyl Alcohol	10.0	Co-emulsifier, consistency regulator
	Hywax 3971	33	Microcrystalline Wax	35.0	Structure and hardness, consistency regulator
	Shea butter	32	Butyrospermum Parkii Butter	5.0	Natural butter
	Beeswax	32	Cera Flava	2.0	Natural wax
	Ganex V-220	60	VP/ Eicosene Copolymer	1.0	Film former, water resistance improver
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	5.0	UVA-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	5.0	UVA / UVB-filter
B	ISOFOL 20 RSPO-MB	1	Octyldodecanol	10.0	Medium spreading emollient
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	5.0	Solubilizing emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient
	Castor oil	32	Ricinus Communis Seed Oil	6.5	Natural oil
	Tocopheryl Acetate	4	Tocopheryl Acetate	0.5	Active care agent
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	8.0	UVB-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Eusolex HMS	9	Homosalate	5.0	UVB-filter
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) to 70°C
2. Add phase (B) to (A) and homogenize

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: solid

## Information:

Calculated SPF: 53.5      Star Rating: \*\*\*  
 UVA-PF/SPF [>0.33]: 0.35      Critical Wavelength: 374 nm      UVA-PF: 18.7

## Sunscreen cream kids (SPF 30)

Formulation no.: 16001

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Eusolex T-Avo	9	Titanium dioxide (and) Silica	13.75	UVA / UVB-filter
A1	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent / hydrocolloid
	Glycerine		Glycerin	3.0	Moisturizing agent
B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier / reduces crow feet wrinkles / moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.0	Co-emulsifier / consistency regulator
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.0	Moisturizing emollient, sebum regulating
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient
	COSMACOL OE	1	Dicaprylyl Ether	2.0	Very light, good spreading emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	2.0	Medium spreading emollient
	Oxynex ST liquid	9	Diethylhexyl Syringylidene-nemalonate (and) Caprylic/ Capric Triglyceride	0.5	Stabilizer
	B1	COSMACOL EBL	1	C12-15 Alkyl Benzoate	8.0
Z-Cote HP1		16	Zinc Oxide (and) Dimethicone	10.0	UV-filter
C	Tocopherol	4	Tocopherol	0.1	Antioxidant
	Allianz OPT	84	Acrylates/C12-22 Alkylmethacrylate Copolymer	1.0	Film former provide water resistance for long-lasting sun formulas
D	Preservative			q. s.	Preservative
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	q. s.	

\*) Supplier list page 70

## Preparation:

1. Homogenize phase (A1)
2. Add phase (A1) to (A) and homogenize
3. Heat phase (A) and (B) separately to 70 °C
4. Homogenize phase (B1)
5. Add phase (B1) to (B) and homogenize
6. Add phase (B) to (A) and homogenize
7. Cool to 35 °C and add phase (C) and (D) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 44,000 mPas, 25°C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Information:

SPF (ISO 24444): 31.0      UVA-PF (ISO 24443): 10.2      Star Rating: \*\*\*  
 UVA-PF/SPF [>0.33]: 0.33      Critical Wavelength: 380 nm

## Sunscreen cream (SPF 50)

Formulation no.: 14346

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Aristoflex AVC	8	Ammonium Acryloyldimethyltaurate/ VP Copolymer	0.3	Gelling agent and thickener
	Glycerine		Glycerin	1.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.0	Co-emulsifier, consistency regulator
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.0	Moisturizing emollient, sebum regulating
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	4.0	Solubilizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	0.5	Mild keratolytic, skin smoothing emollient
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	5.0	UVA-filter
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	15.5	UVA/UVB-filter
	Eusolex OCR	9	Octocrylene	7.5	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former, water resistance improver
	C	Eusolex T-AVO	9	Titanium Dioxide (and) Silica	7.5
D	Tocopherol		Tocopherol	q.s.	Antioxidant
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	0.1	
	Preservative			q.s.	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (C) to (B) until the TiO<sub>2</sub> is well dispersed
3. Add phase (BC) to (A) and homogenize
4. Cool to 35 °C and add phase (D) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 55,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous-creamy

### Information:

Calculated SPF: 50.5  
UVA-PF/SPF [>0.33]: 0.34  
UVA/UVB Ratio: 0.80  
Critical Wavelength: 375 nm  
Star Rating: \*\*\*  
UVA-PF: 16.9

## Sunscreen spray (SPF 30)

Formulation no.: 15412

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.2	Thickening agent / hydrocolloid
B	COSMACOL EBL	1	C12-15 Alkyl Benzoate	5.0	Solubilizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.5	Mild keralytic, skin smoothing emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	1.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	1.5	Sebum regulating, moisturizing emollient
	CERALUTION ES RSPO-MB	1	See page 71	3.0	Emulsifier and dispersant
	Almond oil	32	Prunus Amygdalus Dulcis Oil	0.5	Natural oil
	Eusolex 9020	9	Butyl Methoxydibenzoylmethane	5.0	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Tinosorb S	16	Bis-Ethylhexylphenol Methoxyphenyl Triazine	2.0	UVA / UVB-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	5.0	UVB-filter
Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.5	Film foamer, water resistance improver	
C	Tocopherol	4	Tocopherol	q.s.	Antioxidant
D	Demin. water		Aqua	add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Thickening and stabilizing agent
E	Preservative			q.s.	Preservative
	D-Panthenol (w = 0.75)	4	Panthenol	5.0	Active care agent
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D), and (E) to (AB) and homogenize
4. Adjust the pH-value

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: milky

### Information:

Calculated SPF: 37.7  
UVA-PF/SPF [>0.33]: 0.61  
Star Rating: \*\*\*\*  
Critical Wavelength: 374 nm  
UVA-PF: 22.8

## Sunscreen spray (SPF 50+)

Formulation no.: 14316

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	15.0	
	Glycerine		Glycerin	1.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.2	Thickening agent, hydrocolloid
B	CERALUTION ES RSPO-MB	1	See page 71	3.0	Emulsifier and dispersant
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	5.0	Solubilizing emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	1.0	Mild keratolytic, skin smoothing emollient
	Eusolex 9020	9	Butyl Methoxy-dibenzoylmethane	5.0	UVA-filter
	Eusolex OCR	9	Octocrylene	7.5	UVB-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	7.5	UVA / UVB-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	7.5	UVB-filter
	Uvinul T 150	16	Ethylhexyl Triazone	2.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former, water resistance improver
C	Tocopherol	4	Tocopherol	q.s.	Antioxidant
D	Demin. water		Aqua	add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	12.5	Thickening and stabilizing agent
E	Preservative			q.s.	
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	0.05	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) and homogenize
4. Adjust the pH-value

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: milky

### Information:

Calculated SPF: 61.0      Critical Wavelength: 372 nm      Star Rating: \*\*\*  
 UVA-PF/SPF [>0.33]: 0.34      UVA-PF: 20.6      UVA/UVB Ratio: 0.76

## Transparent sunscreen pump spray without ethanol (SPF 30)

Formulation no.: 14158

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	10.0	Wrinkle reduction, moisturizing emollient
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	20.0	Solubilizing emollient
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Eusolex HMS	9	Homosalate	10.0	UVB-filter
	Eusolex 9020	9	Butyl Methoxydi-benzoylmethane	5.0	UVA-filter
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.5	UVA/UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former, water resistance improver
B	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	19.5	Wrinkle reduction, moisturizing emollient
	ISOFOL 18T	1	Octyldecanol	20.0	Medium spreading emollient
	D-Panthenol (w = 0.75)	4	Panthenol	0.75	Active care agent
	Tocopherol	4	Tocopherol	q.s.	Antioxidant
	Perfume "Orange"	27	Parfum (EU) / Fragrance (US)	0.05	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) to 50 °C and homogenize
2. Cool to room temperature
3. Add the components in phase (B) to (A) and homogenize

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid, yellow

### Information:

Calculated SPF: 35.6      Star Rating: \*\*\*\*  
 UVA-PF/SPF [>0.33]: 0.60      Critical Wavelength: 375 nm

## Transparent sunscreen pump spray without ethanol (SPF 50)

Formulation no.: 15074

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	COSMACOL EBL	1	C12-15 Alkyl Benzoate	33.0	Solubilizing emollient
	Tinosorb S	16	Bis-Ethylhexyloxyphenol Methoxyphenyl Triazine	3.0	UVA/UVB-filter
	Eusolex 9020	9	Butyl Methoxydibenzoyl-methane	3.0	UVA-filter
	Uvinul A Plus B	16	Ethylhexyl Methoxycinnamate (and) Diethylamino Hydroxybenzoyl Hexyl Benzoate	15.5	UVA/UVB-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	1.0	Film former, water resistance improver
	B	COSMACOL ELI	1	C12-13 Alkyl Lactate	10.0
ISOFOL 16 RSPO-MB		1	Hexyldecanol	26.4	Medium spreading emollient
D-Panthenol (w = 0.75)		4	Panthenol	0.75	Active care agent
Tocopherol		4	Tocopherol	q.s.	Antioxidant
Perfume "Orange"		27	Parfum (EU) / Fragrance (US)	0.1	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) to 50 °C and homogenize
2. Cool to room temperature
3. Add the components in phase (B) to (A) and homogenize

Spray pattern: fine dispensed droplets

Storage stability in terms of appearance: stable at 8 °C, room temperature and 40 °C for at least 3 months

Appearance: liquid, yellow

### Information:

Calculated SPF: 52.8

Star Rating: \*\*\*

UVA-PF/SPF [>0.33]: 0.38

Critical Wavelength: 373 nm

## Transparent sunscreen spray (SPF 30)

Formulation no.: 15951

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	COSMACOL EBL	1	C12-15 Alkyl Benzoate	25.0	Solubilizing emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	10.0	Medium spreading emollient
	Ethanol		Alcohol denat.	add to 100	Cooling agent, solubilizer
	Eusolex 9020	9	Butyl Methoxydibenzoyl-methane	3.5	UVA-filter
	Eusolex OCR	9	Octocrylene	10.0	UVB-filter
	Tinosorb S	16	Bis-Ethylhexylphenol Methoxyphenyl Triazine	2.0	UVA / UVB-filter
	Eusolex 2292	9	Ethylhexyl Methoxycinnamate	5.0	UVB-filter
	Lexfilm Sun	83	Polyester-7 (and) Neopentyl Glycol Diheptanoate	2.0	Film foamer, water resistance improver
	Perfume		Parfum (EU) / Fragrance (US)	q.s.	
	Tocopheryl acetate	4	Tocopheryl Acetate	0.5	Active care agent

\*) Supplier list page 70

### Preparation:

Homogenize the components in the above given order while stirring continuously

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid, transparent

### Information:

SPF (ISO 24444): 33.4

UVA-PF (ISO 24443): 12.5

UVA-PF/SPF [>0.33]: 0.37

Critical Wavelength: 373 nm

## Pre- and after sun spray

Formulation no.: 14276

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	10.0	
	Glycerine		Glycerin	3.0	Moisturizing agent
	Allantoin	64	Allantoin	0.3	Moisturizing agent
	Tanisotol	14	Inositol	0.05	Prolongs skin tanning
	Keltrol CG T	5	Xanthan Gum	0.2	Thickening agent, hydrocolloid
B	CERALUTION ES RSPO-MB	1	See page 71	1.5	Emulsifier and dispersant
	COSMACOL OE	1	Dicaprylyl Ether	2.5	Very light, good spreading emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	5.0	Wrinkle reduction, moisturizing emollient
	COSMACOL ECL	1	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic, skin smoothing emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	5.0	Medium spreading emollient
	Shea butter	32	Butyrospermum Parkii Butter	1.5	Natural butter
	Carotene oil	22	Helianthus Anuus Oil (and) Beta-Carotene	0.5	Natural oil
	Avocado oil	32	Persea Gratissima Oil	2.5	Natural oil
	Ronacare Bisabolol	9	Bisabolol	0.2	Active care agent
	Tocopherol acetate	4	Tocopherol Acetate	q.s.	Active care agent
C	Demin. water		Aqua	add to 100	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	15.0	Thickening and stabilizing agent
	D-Panthenol (w = 0.75)	4	Panthenol	1.5	Active care agent
D	Preservative			q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value

Spray pattern: fine dispersed droplets

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: milky

## Aftersun milk

Formulation no.: 15111

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	5.0	Moisturizing agent
	Disodium EDTA		Disodium EDTA	0.1	Chelating agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
B	CERALUTION H RSPO-MB	1	See page 71	2.5	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	0.5	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	3.0	Wrinkle reduction, moisturizing emollient
	COSMACOL OE	1	Dicaprylyl Ether	5.0	Very light, good spreading emollient
	ISOFOL 16 RSPO-MB	1	Hexyldecanol	5.0	Medium spreading emollient
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	2.0	Natural oil
	Tocopheryl Acetate	4	Tocopheryl Acetate	q.s.	Active care agent
C	Carbopol Ultrez 21 Polymer (w = 0.03)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	5.0	Thickening and stabilizing agent
D	Demin. water		Aqua	20.0	
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Aloe Vera gel		Aloe Barbadensis Leaf Juice	0.2	Active care agent
	NaOH (w = 0.1)		Sodium Hydroxide	0.3	Neutralizing agent
E	Ethanol (96%)		Alcohol denat.	6.0	Cooling agent, solubilizer
	Menthol		Menthol	0.1	Cooling agent
	Frescolat ML	6	Menthyl Lactate	0.5	Long lasting cooling agent
	Hydrolite 5	6	Pentylene Glycol	2.0	Emulsion stabilizer
	Preservative			q.s.	

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C), (D) and (E) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s-1): ~ 7,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: milky

## Cleansing milk

Formulation no.: 15121

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	4.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
	D-Panthenol (w = 0.75)	4	Panthenol	1.0	Active care agent
	Allantoin	9	Allantoin	0.3	Active care agent
B	CERALUTION H RSPO-MB	1	See page 71	1.5	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.0	Co-emulsifier, consistency regulator
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	3.0	Moisturizing emollient, sebum regulating
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	5.0	Medium spreading emollient
	PARAFOL 12 RSPO-MB	1	Dodecane	3.5	Fast spreading emollient, replacement for Cyclomethicone
	Olive oil	32	Olea Europaea Fruit Oil	5.0	Natural oil
	Softisan 100	31	Hydrogenated Coco-Glycerides	1.0	Hard fat, consistency regulator
C	Carbopol Ultrez 21 Polymer (w = 0.03)	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	5.0	Thickening and stabilizing agent
D	Preservative			q.s.	
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.05	
	NaOH (w = 0.10)		Sodium Hydroxid	0.7	Neutralizing agent

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) and (D) to (AB) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 13,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid

## Cleansing and caring mask

Formulation no.: 15123

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerine		Glycerin	6.0	Moisturizing agent	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid	
	Allantoin	9	Allantoin	0.2	Active care agent	
	B	CERALUTION H RSPO-MB	1	See page 71	4.0	Emulsifier, reduces crow feet wrinkles, moisturizer
NAFOL 1618 H RSPO-MB		1	Cetearyl Alcohol	2.0	Co-emulsifier, consistency regulator	
COSMACOL OE		1	Dicaprylyl Ether	4.0	Very light, good spreading emollient	
COSMACOL EMI		1	Di-C12-13 Alkyl Malate	2.0	Wrinkle reduction, moisturizing emollient	
COSMACOL ECL		1	Tri-C14-15 Alkyl Citrate	2.0	Mild keratolytic, skin smoothing emollient	
COSMACOL ELI		1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating	
COSMACOL ECI		1	Tri-C12-13 Alkyl Citrate	3.0	Good spreading emollient	
ISOFOL 20 RSPO-MB		1	Octyldodecanol	6.0	Medium spreading emollient	
Jojoba oil		32	Simmondsia Chinensis Seed Oil	1.0	Natural oil	
Mango butter		32	Mangifera Indica Seed Butter	2.0	Natural butter	
Tocopheryl acetate		4	Tocopheryl Acetate	q.s.	Active care agent	
C		Demin. water		Aqua	10.0	
		Panthenol (w = 0.75)	4	Panthenol	0.5	Active care agent
D	Demin. water		Aqua	25.0		
	Carbopol Ultrez 20 Polymer	30	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.3	Thickening and stabilizing agent	
E	NaOH (w = 0.1)		Sodium Hydroxide	0.6	Neutralizing agent	
	Preservative			q.s.		
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.1		

\*) Supplier list page 70

## Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB) and homogenize
4. Cool to 35 °C and add phase (D) and (E) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 86,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous



## Concentrate for wet wipes with ethanol

Formulation no.: 15683

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CPE	1	See page 71	20.0	Self-emulsifying concentrate, cold-processing possible
B	PARAFOL 14 RSPO-MB	1	Tetradecane	10.0	Good spreading emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	15.0	Wrinkle reduction, moisturizing agent, velvety skin feel
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	20.0	Medium spreading emollient
	Calendula oil	32	Calendula Officinalis Flower Extract	10.0	Natural oil
C	Demin. water		Aqua	24.0	
D	Preservative			q.s.	Preservative

\*) Supplier list page 70

### Preparation:

1. Add phase (B) to phase (A) at room temperature with turbulent stirring until the median particle size is < 0.40 µm. Please make sure that phase (B) is added slowly, otherwise local and irreversible phase inversion can occur
2. Add phase (C) and homogenize
3. Add phase (D) and homogenize

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 29,600 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid-viscous

### Processing to get a low viscous emulsion for wet wipes with ethanol

Phase	Trademark	Weight [%]
ABCD	CERALUTION CPE concentrate	5.0
E	Demin. water	add to 100
F	Preservative, optional water soluble additives	q.s.
	Perfume	q.s.

### Preparation:

4. Add phase (E) to phase (ABCD) at room temperature while homogenization
5. Add phase (F) and homogenize

## Skin lightening cream

Formulation no.: 13660

Phase	Trademark	*)	INCI name	Weight [%]	Function	
A	Demin. water		Aqua	add to 100		
	Glycerine		Glycerin	2.0	Moisturizing agent	
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid	
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer	
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.5	Co-emulsifier, consistency regulator	
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	4.0	Solubilizing emollient	
	COSMACOL OE	1	Dicaprylyl Ether	3.0	Very light, good spreading emollient	
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.5	Wrinkle reduction, moisturizing emollient	
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	7.5	Medium spreading emollient	
	Olive oil	32	Olea Europaea Fruit Oil	3.0	Natural oil	
	Tocopheryl acetate	4	Tocopheryl Acetate	q.s.	Active care agent	
	C	1.3 Butandiole	9	Butylene Glycol	2.0	Moisturizing agent
		Melfade PF	64	Water (and) Arctostaphylos Uva Ursi (Bearberry)Extract (and) Glycerin (and) Magnesium Ascorbyl Phosphate	3.0	Active care agent
	D-Panthenol (w = 0.75)	4	Panthenol	1.5	Active care agent	
D	Carbopol Ultrez 21 Polymer (w = 0.03)	30	Acrylates/ C10-30 Alkyl Acrylate Crosspolymer	15.0	Thickening agent	
E	Dry Flo PC	41	Aluminum Starch Octenylsuccinate	0.5	Skin feel	
	NaOH (w = 0.1)		Sodium Hydroxide	1.1	Neutralizing agent	
	Preservative			q.s.		
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.05		

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) to (AB) and homogenize
4. Add phase (D) and (E) to (ABC) and homogenize
5. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 56,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: viscous

## Self tanning spray

Formulation no.: 15122

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	CERALUTION CPE	1	See page 71	7.5	Self-emulsifying concentrate, cold-processing possible
B	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Moisturizing emollient, sebum regulator
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient, sebum regulating
	COSMACOL OE	1	Dicaprylyl Ether	2.0	Good spreading emollient
	ISOFOL 16 RSPO-MB	1	Hexyldecanol	2.0	Medium spreading emollient
	PARAFOL 14 RSPO-MB	1	Tetradecane	4.0	Good spreading emollient, replacement for Isohexadecane
	Witarix MCT 60/40	31	Caprylic/Capric Triglyceride	5.0	MCT oil
C	Demin. water		Aqua	25.0	
	Demin. water with 4% Avicel PC 611	62	Microcrystalline Cellulose (and) Cellulose Gum	15.0	Thickening and stabilizing agent
	Erythrulose	64	Erythrulose	1.5	Active care agent
	Dihydroxyacetone	9	Dihydroxyacetone	3.5	Active care agent
	Disodium EDTA		Disodium EDTA	0.2	Chelating agent
	Keltrol CG SF	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
D	Preservative			q.s.	
	Perfume "Care"	27	Parfum (EU) / Fragrance (US)	0.1	
	Citric Acid		Citric acid	q.s.	pH-adjustment 4.0

\*) Supplier list page 70

## Preparation:

1. Add phase (B) to (A) with turbulent stirring until the median particle size analysis is < 0.40 µm.  
Please make sure that phase (B) is added slowly, otherwise local and irreversible phase inversion can occur.
2. Add phase (C) to (AB) and homogenize
3. Add phase (D) and (E) to (ABC) and homogenize
4. Adjust the pH-value

Viscosity (Haake, RheoStress 1, 1s<sup>-1</sup>): ~ 30,000 mPas, 25 °C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid-viscous

## Clear deodorant

Formulation no.: 15841

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	MARLOWET COE 329	1	PEG-7 Glyceryl Cocoate	1.0	Solubilizing agent
	COSMACOL NII-9	1	C12-13 Pareth-9	5.0	Solubilizing agent
	COSMACOL ELI	1	C12-13 Alkyl Lactate	0.5	Moisturizing emollient, body odour control
	ISOCARB 12	1	Butyloctanoic acid	2.0	Medium spreading, pleasant and non-sticky emollient, biomimetic performance booster
	MARLOSOL ST 9150 P	1	PPG-15 Stearyl Ether	0.5	Polar emollient
	Ethanol (96%)		Alcohol denat.	25.0	Cooling agent
	Perfume "Fruity"	27	Parfum (EU) / Fragrance (US)	0.5	
	B	Allantoin		Allantoin	0.1
Glycerine			Glycerin	3.0	Moisturizing agent
1,3 Butanediol			1,3 Butanediol	3.0	Moisturizing agent
C	Demin. water		Aqua	20.0	
	NaOH (w:0.2)			q.s.	Neutralizing agent
	Natriumbenzoate		Sodium Benzoate	0.1	Preservative
	Demin. water		Aqua	add to 100	

\*) Supplier list page 70

## Preparation:

1. Homogenize phase (A)
2. Add phase (B) to (A) and homogenize
3. Add phase (C) to (AB), adjust the pH-value and homogenize

Storage stability in terms of appearance: stable at room temperature, 8 °C and 40 °C for at least 3 months

Appearance: liquid, transparent

## Massage oil

Formulation no.: 15926

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	ISOFOL 16 RSPO-MB	1	Hexyldecanol	5.0	Medium spreading emollient
	ISOFOL 20 RSPO-MB	1	Octyldodecanol	20.0	Medium spreading emollient
	ISOFOL 24	1	Decyltetradecanol	5.0	Medium spreading emollient
	COSMACOL ELI	1	C12-13 Alkyl Lactate	2.0	Moisturizing emollient
	COSMACOL EMI	1	Di-C12-13 Alkyl Malate	2.0	Moisturizing emollient
	COSMACOL EBL	1	C12-15 Alkyl Benzoate	15.0	Solubilizing emollient
	PARAFOL 14 RSPO-MB	1	Tetradecane	5.0	Emollient, replacement for Isoalkanes
	Witarix MCT 60/40	31	Caprylic/Capric Triglyceride	15.0	Light spreading emollient
	Jojoba oil	32	Simmondsia Chinensis Seed Oil	10.0	Natural oil
	Sunflower oil	32	Helianthus Annuus Seed Oil	20.0	Natural oil
	Tocopheryl acetate		Tocopheryl Acetate	q.s.	Active care agent
	Bisabolol		Bisabolol	q.s.	Active care agent
	Perfume "Commage"	27	Parfum (EU) / Fragrance (US)	q.s.	

\*) Supplier list page 70

### Preparation:

Homogenize the components in the above given order while stirring continuously.

Storage stability in terms of appearance: stable at room temperature, 8 °C and 40 °C for at least 3 months

Appearance: liquid, transparent

## Massage lotion

Formulation no.: 15859

Phase	Trademark	*)	INCI name	Weight [%]	Function
A	Demin. water		Aqua	add to 100	
	Glycerine		Glycerin	6.0	Moisturizing agent
	Keltrol CG T	5	Xanthan Gum	0.3	Thickening agent, hydrocolloid
B	CERALUTION H RSPO-MB	1	See page 71	3.0	Emulsifier, reduces crow feet wrinkles, moisturizer
	NAFOL 1618 H RSPO-MB	1	Cetearyl Alcohol	1.5	Co-emulsifier, consistency regulator
	PARAFOL 12 RSPO-MB	1	Dodecane	5.0	Fast spreading emollient, replacement for Cyclomethicone
	PARAFOL 22-95	1	Docosane	5.0	Dimethicone replacer
	Sunflower oil	32	Helianthus Annuus Seed Oil	5.0	Natural oil
	Almond oil	32	Prunus Amygdalus Dulcis Oil	2.0	Natural oil
	Tocopherol acetate	4	Tocopherol Acetate	0.6	Active care agent
C	Demin. water		Aqua	20.0	
	Panthenol (w=0.75)	4	Panthenol	1.0	Active care agent
D	Preservative			q.s.	
	Perfume "Lavendel"	27	Parfum (EU) / Fragrance (US)	0.1	

\*) Supplier list page 70

### Preparation:

1. Heat phase (A) and (B) separately to 70 °C
2. Add phase (B) to (A) and homogenize
3. Cool to 35 °C and add phase (C) and (D) and homogenize

Viscosity (Haake, RS1, 1s<sup>-1</sup>): ~ 15.000 mPas, 25°C

Storage stability in terms of appearance: stable at room temperature, 40 °C and 50 °C for at least 3 months

Appearance: liquid, transparent

## Supplier list

1	Sasol	27	drom fragrances
3	Evonik Industries	30	Lubrizol Advanced Materials
4	Alfa Aesar	31	IOI Oleo
5	CP Kelco	32	Gustav Heess
6	Symrise	33	Awax Group
7	ICL	41	AkzoNobel Personal Care
8	Clariant International	58	Nordmann, Rassmann
9	Merck	60	ISP
10	Thor Chemie	61	Uniqema
11	Mane	62	FMC Corporation
12	Cosphatec	64	DSM N.V.
13	Evonik Dr. Straetmans	70	SEPPIC
14	Provital Group	75	The Dow Chemical Company
16	BASF SE	78	Fragrance Resources
19	BRB International	83	INOLEX
22	J.H. Müller	84	Ashland



## INCI name list

**CERALUTION H RSPO-MB****INCI name:**

Behenyl Alcohol (and) Glyceryl Stearate (and) Glyceryl Stearate Citrate (and) Disodium Ethylene Dicotamide PEG-15 Disulfate

**CERALUTION ES RSPO-MB****INCI name:**

Cetareth-25 (and) Disodium Ethylene Dicotamide PEG-15 Disulfate

**CERALUTION CPE****INCI name:**

Aqua (and) Caprylic/Capric Triglyceride (and) Glycerin (and) Cetareth-25 (and) Disodium Ethylene Dicotamide PEG-15 Disulfate (and) Acacia Senegal Gum (and) Xanthan Gum (and) Citric Acid (and) Benzyl Alcohol (and) Ethylhexylglycerin (and) Tocopherol

**Source reference**

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